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E7.6-10.0.86 CR-145989 THE U.S. OF HERE/LANDOAT LUNCERY IN RELATION TO AIRMORAS RIMOSA SYMBERG FOR MERCHIN AMALYSIG in of Earth Resources Serv IN LESSER QUETESLAD, AUSTRALIA Program information and without liability for any use made thereot." Report for period to 31st Cotober 1975 bу Monica M Cole, Msc., PhD. (Lond.), FLM 176-16509 and E. S. Oven-Jones, Bic, FhD (males), M. Inst.P Receipt and handling of data to 31st October 1975 The following frames have been received:-ID nes:-Cloncurry - Mt. Isa area (March Imagery) 2039-23555 Gregory R. - IIt. Isa area 2041-00013. Cloncurry - Duchess area 2039-23562 lit. Isa - Urandangi area 2041-00020 eulia Ck. - lickuntay area 2038-23503 2059-00012 Gregory R. - Mt. Isa area (May Imagery) 2128-25501 Julia Crock erca Plates for the interpretation of this imagery have been prepared but owing to involvement with field work in Australia for the acquisition, of ground truth data only a limited amount of interpretation of the data was effected by 31st Cotor m 1975. 2962B

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## Comment on the quality of the imagery

Apart from a noise band on three of the four bands of ID no. 2039-23555, the imagery is of good quality. Using the additive viewing system, on a quick look basis differences have been observed in the imagery taken at different seasons from LANDIAT 1 and LANDIAT 2. Precise interpretation will follow from the interpretation currently in progress.

## Progress on the interpretation of the imagery

Ground truth information was obtained during the period April - September 1975, using existing interpretations of LALDSAT 1 imagery. The IALDSAT 2 imagery was not received in time for the field season.

Using the additive viewing system one colour composite transparency has been generated from the first LANDSAT 2 images for the following frames:-

ID no. 2039-23555 (Clonourry - Dobbyn area)

Utilizing the above colour composite transparency part of the frame of the area of interest has been digitized by means of a microdensitemeter. A supervised learning method, the maximum likelihood decision rule, has then been used to classify the image in an optimum manner. The next phase is to compare the results from this image with those from an image of the same area taken by

ORIGINAL PAGE IS OF POOR QUALITY LAMBIANT 1 some two years carlier, for cvidence of changes. Progress has also been made in reading a CCT which we have obtained of South-Jast England displaying a selected portion of the image in a microfilm plotter both on a grey-scale and as a density-sliced image of a single wave-band. Since the above LAMDSAT-2 image is satisfactory, application has been made for a CCT of the frame ID 2039-23555 of the Cloneurry - Dobbyn area of Western Queensland.

